

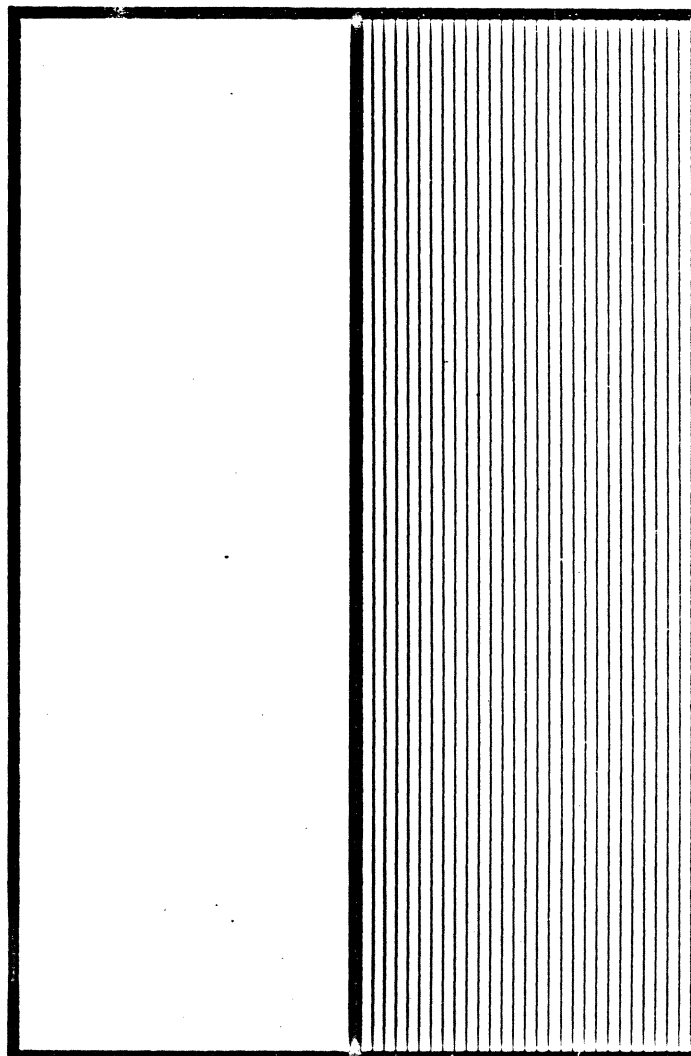


UNIVAC

9400 SYSTEM

PROGRAM DESCRIPTION DRAWING

CUSTOMER
ENGINEERING



SPERRY RAND



DRAWING NO. 4091707

REVISION -

**CUSTOMER ENGINEERING
PRODUCT DIAGNOSTIC SOFTWARE**

9400 - 5024/8424 or 8425 Disc to Printer Routine
D2030

SIGNATURE

TITLE

DATE

APPROVAL

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REVISION STATISTICS RECORD

4091707

DWG REV	MSTR REV	RELEASE DATE	DESIGNER NAME	EIR NUMBER	FCO NUMBER
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REVISION DESCRIPTION RECORD

REV	DESCRIPTION
-	Release to 9400 Test Library

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1. INTRODUCTION	5
1.1 Purpose	5
1.2 Major Objectives	5
1.3 Equipment Configurations	5
1.4 Associated Software	5
1.5 Reference Documents	5
2. FUNCTIONAL DESCRIPTION	6
2.1 General Organization	6
2.2 Program Description	6
3. OPERATING PROCEDURES	7
3.1 Initialization	7
3.2 Test Program Parameters	7
3.3 Test Program Messages	7
4. SUPPLEMENTARY DATA	8
4.1 Supplementary Software Information	8
4.2 Supplementary Hardware Information	8

1. INTRODUCTION

1.1 Purpose. This document describes a 9400 Maintenance test program for the 5024/8424 of 25 Subsystem.

1.2 Major Objectives. The objective of this test program is to perform a test of the 5024/8424 or 25 Subsystem. Test organization and operator options are intended to satisfy the needs of Design, Quality Control and Field Engineering personnel in checkout, acceptance and maintenance activities.

1.3 Equipment Configurations. All equipment configurations must be connected to a Selector I-O channel of the 9400 Processor. This test will operate the following equipment configuration:

- Disc File Control - Type 5024
- Disc Drive - Type 8424 or 25
- Disc Pack Assembly - Type F12 14-01

1.4 Associated Software. This program has DSKH included as an integral part of the program. This is the standard disc handler routine used by all Disc Maintenance test programs. It is the interface between the program and MCR, which performs program load, parameterization, execution, deletion, I-O handling, and message handling.

1.5 Reference Documents

DRAWING

DESCRIPTION

S70040

UNIVAC 9400 Processor, Type 3019-00 and -01.
UNIVAC 9400 Dual I-O Selector Channel, Type
XXXX-00 and -01.

P10076

Disc File Control, Type 5024.
8424 or 25

4091622

Maintenance Control Routine.

4091623

Parameter and Message Routines.

4091670

5024/8414 Disc Program Handler.

2. FUNCTIONAL DESCRIPTION

2.1 General Organization. This program is designed to print any or all of the tracks of an 8424 Disc File.

2.2 Program Description

2.2.1 Test 1 (Disc to Printer)

Objective - This routine was not designed specifically as a test routine, but for the purpose of printing any or all of the 8120 tracks of an 8424 Disc File..

Method - The routine reads and prints Home Address, Record 0, and Count, Key and Data Records up to the maximum size record that can fit on a track. Home Address must be 5 bytes and the Count Area of each record including Record 0 must be 8 bytes. There are no restrictions on key and data record lengths.

3. OPERATING PROCEDURES

The Disc Handler Routine DSKH is used as a standard interface between the program and MCR. All operating procedures described in the DSKH documentation hold equally well for this program.

3.1 Initialization. See DSKH documentation. The prog. is called by typing in the name D4030.

3.2 Test Program Parameters. See DSKH documentation.

3.3 Test Program Messages. The DSKH documentation describes all test entry and exit messages and a standard I-O message. Data errors are detected by the program, and all data error messages are contained in the program. Register 9 is used to jump to the various error routines, so its contents are printed with most error messages.

3.3.1 Test 1 -

--DAnn HA 00500001 MISSING

The Home Address Area for the cylinder and track specified is missing.

--DAnn HA 00500001 SHORT

The Home Address Area for the cylinder and track specified was not read in its entirety. The portion that was read will be printed.

--R0 MISSING

There is no Track Descriptor Record on the Track.

--INCORRECT LENGTH

Only part of a record (including Record 0) was read. The portion that was read will be printed.

--DA nn ERRONEOUSLY READ CYL XX HD XX INSTEAD OF CYL XX HD XX

The Home Address on the track does not match the cylinder and head no. of the Seek command.

The format of the printed data is as follows:

DA nn HA XXXXXXXX R0 C XXXXXXXXXXXXXXXX KD XXXXXXXXXXXXXXXX

R01 C XXXXXXXXXXXXXXXX KD XXXXXXXXXXXXXXXX

nn = device address

4. SUPPLEMENTARY DATA

4.1 Supplementary Software Information. Each test of the program is entered separately by DSKII and stands alone. It could be extracted from the rest of the program and either be eliminated or assembled by itself with DSKII.

4.2 Supplementary Hardware Information. See DSKII documentation.